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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/695,145 10/28/20		10/28/2003	Martin Gould	6149	6451
881	7590	02/22/2005		EXAMINER	
		SON PLLC	YU, MELANIE J		
1199 NORTH FAIRFAX STREET SUITE 900				ART UNIT	PAPER NUMBER
ALEXAND	ALEXANDRIA, VA 22314			1641	
				DATE MAILED: 02/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Ç	Application No.	Applicant(s)					
	10/695,145	GOULD ET AL.					
Office Action Summary	Examiner	Art Unit					
	Melanie Yu	1641					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 31 A	<u>ugust 2004</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 1-25 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-25 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.						
Application Papers							
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 28 October 2003 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 2015 in the Exam	: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No In this National Stage					
Attachment(s)	_	·					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 12, 13, 24 and 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 12 and 24 recite the phrase "generally L-shaped", it is unclear what is encompassed by this term and how L-shaped the housing must be in order to be generally L-shaped.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art. 3.
- Considering objective evidence present in the application indicating obviousness 4. or nonobviousness.
- Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wickstead et 2. al. (US 6,634,243) in view of Anderson et al. (US 6,267,722).

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Wickstead et al. teach a lateral flow immunoassay device comprising: a housing (sample device; col. 4, line 41) including means for holding a test sample collector with a test sample contained within the collector (sample collector; col. 4, lines 41-42); an elongated holder member securing at least one immunoassay test strip therein (test strip container; 50, Fig. 1; col. 4, line 42); a first chamber containing a first, pre-treatment reagent of a buffer (buffer container; col. 4, line 41); a second chamber (filter; col. 4, line 42); means for contacting the test sample with the pre-treatment reagent and allowing the test sample to mix with the first reagent to form a mixture (col. 9, lines 13-17); and means for allowing the mixture to contact at least one immunoassay test strip (col. 5, lines 43-49). Wickstead et al. fail to teach the second chamber containing a second reagent and means for introducing the second reagent to the mixture and allowing the mixture to react with the second reagent for a period of time.

Anderson et al. teach a chamber (filter disposed before the test strip) containing a second reagent (col. 32, line 60-col. 33, line 2); a means for introducing a second reagent to a mixture and allowing a mixture to react with a second reagent for a period of time (col. 14, lines 7-15; col. 32, line 60-33, line 2) and means for allowing the mixture and second reagent combination to contact an immunoassay test strip (col. 33, lines 3-8), in order to provide point of care diagnostic analysis system with rapid and accurate results.

Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to for the filter in the device of Wickstead et al., being a second chamber containing a second reagent; a means for introducing a second reagent to a mixture and a means for allowing a mixture and second reagent to contact an immunoassay strip as taught by

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Anderson et al., in order to enhance the diagnostic and risk assessment capabilities of decisionsupport methodologies in immunochromatographic assay systems.

Regarding claims 3-5 and 17-19, Anderson et al. teach the second reagent being disposed within a filter being a binder (labeled antibody conjugate; col. 32, line 60-col. 33, line 2) of a colloidal gold-antibody complex (col. 35, lines 22-23) or an antigen (col. 6, lines 53-56).

With respect to claims 6, 7, 10, 11, 15, 20, 22 and 23, Wickstead et al. teach the pretreatment reagent contained within a rupturable enclosure wherein the contacting means include a piercing membrane that ruptures the enclosure and releases the first reagent, and the test sample being in fluid communication with the first reagent when the test sample is released from the sample collector (col. 5, lines 14-26). Wickstead et al. further teach the contacting means including a button (110, Fig. 13) and a piercing member, wherein the button activates the piercing membrane to rupture the enclosure and release the first reagent contained therein (fluid-tight press fit between buffer container and sample collector, Fig. 13; col. 4, line 63-col. 5, line 6). Wickstead et al. also teach the holding means including an elongated slot (261 and 262, Fig. 16).

With respect to claims 8, 9 and 21, Wickstead et al. teach introducing means including apertures in communication with the second chamber through which the mixtures flows (filter, 230, Fig. 16; col. 5, lines 43-67) the mixture would contact the second reagent of Anderson et al. that is disposed within the filter (col. 32, line 60-col. 33, line 2). Wickstead et al. further teach the means for allowing the mixture to contact the at least one immunoassay test strip including the holding member being isolated so that at least one test strip does not contact the mixture until the mixture has reacted with the filter (col. 6, lines 64-65; col. 8, lines 33-36), which would cause

the mixture to react with the second reagent disposed in the filter as taught by Anderson et al. before contacting the test strip (col. 32, line 60-col. 33, line 2).

Regarding claims 12, 13, 24 and 25, Wickstead et al. teach the housing being generally L-shaped (254, Fig. 16) with a vertical leg (lower part of device comprising parts 260, 261, 262) having a top and a bottom end (top end is toward the cap, 210, and bottom end is the lower part of the device in Fig. 16) and a horizontal leg extending outwardly from the bottom of the vertical leg (horizontal leg comprises parts 220 and 210 in Fig. 16 when fully assembled), wherein the test strip (240, Fig. 16) is located within the vertical leg (between 261 and 262 in Fig. 16).

Conclusion

3. No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Yu whose telephone number is (571) 272-2933. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Melanie Yu Patent Examiner

Milanie Jr

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LONG V. LE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

12/16/05